

1-20-92  
12.38 v.6



ASH GROVE CEMENT COMPANY

SEATTLE, WA 98134  
INTER-OFFICE MEMORANDUM

Date: January 20, 1992

To: Jim Post ✓

From: Nate Fernow *Nate*

Copies to: Ken Rone

Subject: Centraillia Bottom Ash

Dick Cooke

Pat Noon

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Listed below is the test data on the additional samples of bottom ash from the Centraillia power plant.

Seattle ID#	198-91	199-91	22A-92	22B-92	22C-92	22D-92	AVERAGE
Date	11/21/91	11/21/91	1/14/92	1/14/92	1/14/92	1/14/92	OF ALL TESTS
SiO2	53.6	52.8	52.7	52.4	52.6	54.0	53.0
Al2O3	28.6	28.8	28.9	30.1	27.8	29.0	28.9
Fe2O3	5.5	5.4	5.4	5.0	5.5	4.8	5.3
CaO	7.2	7.4	6.4	7.4	7.4	6.9	7.1
MgO	1.9	2.0	1.6	2.3	1.8	2.0	1.9
SO3	0.00	0.00	0.00	0.00	0.00	0.04	0.01
Loss	0.6	0.4	0.4	0.2	1.1	0.4	0.5
Na2O	2.80	3.18	3.82	3.90	3.80	3.80	3.55
K2O	0.48	0.48	0.55	0.55	0.55	0.55	0.53
Tot. as Na2O	3.12	3.50	4.18	4.26	4.16	4.16	3.90
Tot Alk/Al2O3	0.109	0.121	0.145	0.142	0.150	0.144	0.135
Sampled by:	STAFF	STAFF	STAFF	STAFF	STAFF	STAFF	

The new samples are higher in total alkali than the first two but would still be able to give us a +6.5 % C<sub>3</sub>A and low alkali cement.

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